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April 29, 2005

Mail Stop Certificate of Corrections  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: U.S. Patent No.: 6,878,557 B1 (based on USSN 09/009,846)  
Issued: April 12, 2005  
Title: Logically Ordered Arrays of Compounds and Methods of  
Making and Using the Same  
Applicants: Robert ZAMBIAS *et al.*  
Atty. Docket: 16887.076

Sir:

The following documents are forwarded herewith for appropriate action by the U.S.  
Patent and Trademark Office (PTO):

1. a Request for Certificate of Correction;
2. a Form PTO-1050 (two sheets); and
3. a return postcard.

Please stamp the attached postcard with the filing date of these documents and return it to  
our courier.

Applicants do not believe any fees are due in conjunction with this filing. However, if  
any additional fees are required in the present application, including any fees for extensions of  
time, then the Commissioner is hereby authorized to charge such fees to Arnold & Porter LLP  
Deposit Account No. 50-2387 referencing matter number 16887.076. A duplicate copy of this  
letter is enclosed.

Respectfully submitted,

David R. Marsh (Reg. No. 41,408)  
Lisa A. Adelson (Reg. No. 51,204)

Enclosures



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of:

Robert ZAMBIAS *et al.*

Patent No.: 6,878,557 B1 (based on USSN 09/009,846)

Issued: April 12, 2005

Confirmation No. 7948

Art Unit: 1639

Examiner: P. Ponnaluri

Atty. Docket: 16887.076

For: Logically Ordered Arrays of Compounds and Methods of Making and Using the Same

**REQUEST FOR CERTIFICATE OF CORRECTION  
UNDER 37 C.F.R. § 1.322**

**Attn: Certificate of Corrections Branch**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.322, Patentee hereby requests that a Certificate of Correction be issued to correct the following

On the title page, under the heading (56) References Cited, please add the following three references:

Under U.S. PATENT DOCUMENTS

U.S. Patent No. 5,510,240    04/1996    Lam et al.

Under OTHER PUBLICATIONS

Pirrung et al., J. Amer. Chem. Soc., vol. 117, pages 1240-1245

Pirrung et al. (Advance ACS Abstract, Vol. 8, No. 1, January 1, 1995).

In the "What is claimed is:" section of the above-referenced patent, please make the following corrections:

At Column 129, line 25:

1. A method of making a[ logically-ordered,] spatially-addressable array of **at least 500 different** compounds, **each of which is in solution, said compounds** having a same common linear, branched, or cyclic molecular core comprising at least three atoms of carbon, nitrogen, oxygen, phosphorus, or sulfur and at least two structural diversity elements **attached thereto**, [wherein the molecular cores have attachment points for the structural diversity elements, an ability to present the structural diversity elements in controlled varying arrangements, and an ability to be constructed in a rapid concerted fashion, ]said array comprising at least a first sub-array and a second sub-array, wherein the compounds composing the first sub-array each have at least one common structural diversity element, and the compounds composing the second sub-array each have at least one common structural diversity element, said method comprising the steps of:

(a) providing [a plurality of]**at least 500** reaction vessels organized into **at least**[the] first and second sub-arrays;

(b) adding reactants to each of the reaction vessels in a manner such that, when reacted, the reactants form the compounds of the **sub-arrays in the array, wherein each reaction vessel contains substantially only one compound** and such that the compounds composing each sub-array differ from one another by one change in a structural diversity element; and

(c) **concurrently** reacting the contents of [each]**the** reaction [vessel]**vessels** under appropriate **solution-phase** conditions **in one or more cycles** to form [the]**all** compounds of the sub-arrays in the [logically-ordered]array.

At Column 130, line 38:

3. The method of claim 2, further including, **after step a) or step b)**, the step of formatting the contents of the reaction vessels into a spatially-addressable array.

At Column 130, line 41:

4. The method of claim 1[, or 2[, or, 3], wherein each [base module ]compound in the array is unique.

Patentee notes that the above-referenced corrections are necessitated as a result of Patent Office errors in the printing of U.S. Patent No. 6,878,557. Support for these corrections may be found in the Patent Office records of U.S. Application No. 09/009,846, for example, in Applicants' submission filed August 26, 1998, October 4, 1999 and February 27, 2003 and, as well, in Form PTO-892 attached to the Office Action mailed November 7, 2000, and Form PTO-892 attached to the Office Action mailed December 22, 1999. Accordingly, it is not believed that any fees are due in conjunction with the present filing. However, if any fees are necessary, authorization is given in the accompanying transmittal letter to charge such fees to counsel's deposit account.

The Commissioner is invited to contact the patentee's undersigned representative at (202) 942-5325 to address any unresolved issues remaining in this patent.

Respectfully submitted,



David R. Marsh (Reg. No. 41,408)  
Lisa A. Adelson (Reg. No. 51,204)

Date: April 29, 2005

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## UNITED STATES PATENT AND TRADEMARK OFFICE

### CERTIFICATE OF CORRECTION

PATENT NO : 6,878,557  
DATED : April 12, 2005  
INVENTOR(S) : Robert ZAMBIAS *et al.*

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

On the title page(s), (56) References Cited, U.S. Patent Documents, insert --5,510,240 04/1996 Lam *et al.*--.

On the title page(s), (56) References Cited, Other Publications, insert --Pirrung *et al.*, *J. Am. Chem. Soc.*, vol. 117, pages 1240-1245--.

On the title page(s), (56) References Cited, Other Publications, insert --Pirrung *et al.* (Advance ACS Abstract, Vol. 8, No. 1, January 1, 1995).--

At Col. 129, lines 25-49, replace claim 1 with claim 1 as follows:

1. A method of making a spatially-addressable array of at least 500 different compounds, each of which is in solution, said compounds having a same common linear, branched, or cyclic molecular core comprising at least three atoms of carbon, nitrogen, oxygen, phosphorus, or sulfur and at least two structural diversity elements attached thereto, said array comprising at least a first sub-array and a second sub-array, wherein the compounds composing the first sub-array each have at least one common structural diversity element, and the compounds composing the second sub-array each have at least one common structural diversity element, said method comprising the steps of:

- (a) providing at least 500 reaction vessels organized into at least first and second sub-arrays;
- (b) adding reactants to each of the reaction vessels in a manner such that, when reacted, the reactants form the compounds of the sub-arrays in the array, wherein each reaction vessel contains substantially only one compound and such that the compounds composing each sub-array differ from one another by one change in a structural diversity element; and
- (c) concurrently reacting the contents of the reaction vessels under appropriate solution-phase conditions in one or more cycles to form all compounds of the sub-arrays in the array.

MAILING ADDRESS OF SENDER: Arnold & Porter LLP  
Attn: IP Docketing, Room 1126B  
555 Twelfth Street, N.W.  
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PATENT NO. 6,878,557 B1

No. of additional copies



This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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